



Features

- Compliant with AEC-Q200 Rev-C- Stress Test Qualification for Passive Components in Automotive Applications
- Radial leaded devices
- Smaller size for similar Ihold rating
- Faster tripping
- RoHS compliant* and halogen free**
- Agency recognition: us

Applications

- Automotive applications
- Where space is limited and fast tripping is required

MF-RG Series - PTC Resettable Fuses

Electrical Characteristics

| Model | V max. Volts | I max. Amps | Ihold | Itrip | Initial Resistance | | 1 Hour (R1) Post-Trip Resistance | Max. Time To Trip | | Tripped Power Dissipation |
|-----------|--------------|-------------|------------------|-------|--------------------|--------|----------------------------------|-------------------|------------------|---------------------------|
| | | | Amperes at 23 °C | | Ohms at 23 °C | | Ohms at 23 °C | Amperes at 23 °C | Seconds at 23 °C | Watts at 23 °C |
| | | | Hold | Trip | Min. | Max. | Max. | | | Typ. |
| MF-RG300 | 16 | 100 | 3.00 | 5.10 | 0.038 | 0.065 | 0.0975 | 15 | 1.0 | 2.30 |
| MF-RG400 | 16 | 100 | 4.00 | 6.80 | 0.021 | 0.0385 | 0.0600 | 20 | 1.7 | 2.40 |
| MF-RG500 | 16 | 100 | 5.00 | 8.50 | 0.015 | 0.023 | 0.0340 | 25 | 2.0 | 2.60 |
| MF-RG600 | 16 | 100 | 6.00 | 10.20 | 0.010 | 0.0185 | 0.0280 | 30 | 3.3 | 2.8 |
| MF-RG650 | 16 | 100 | 6.50 | 11.10 | 0.0088 | 0.0158 | 0.0240 | 33 | 3.5 | 3.0 |
| MF-RG700 | 16 | 100 | 7.00 | 11.90 | 0.0077 | 0.0130 | 0.0200 | 35 | 3.5 | 3.0 |
| MF-RG800 | 16 | 100 | 8.00 | 13.60 | 0.0056 | 0.0110 | 0.0175 | 40 | 5.0 | 3.0 |
| MF-RG900 | 16 | 100 | 9.00 | 15.30 | 0.0047 | 0.0092 | 0.0135 | 45 | 5.5 | 3.3 |
| MF-RG1000 | 16 | 100 | 10.00 | 17.00 | 0.0040 | 0.0071 | 0.0102 | 50 | 6.0 | 3.6 |
| MF-RG1100 | 16 | 100 | 11.00 | 18.70 | 0.0037 | 0.0062 | 0.0089 | 55 | 7.0 | 3.7 |

Environmental Characteristics

| | |
|---------------------------------------|--|
| Operating Temperature..... | -40 °C to +85 °C |
| Passive Aging..... | +85 °C, 1000 hours..... ±5 % typical resistance change |
| Humidity Aging..... | +85 °C, 85 % R.H. 1000 hours..... ±5 % typical resistance change |
| Thermal Shock..... | -40 °C to +85 °C, 10 times..... ±10 % typical resistance change |
| Solvent Resistance..... | MIL-STD-202, Method 215..... No change |
| Vibration..... | MIL-STD-883C, Method 2007.1, Condition A..... No change |
| Moisture Sensitivity Level (MSL)..... | Level 1 |
| ESD Classification - HBM..... | Class 6 |

Test Procedures And Requirements For Model MF-RG Series

| Test | Test Conditions | Accept/Reject Criteria |
|----------------------|--------------------------------------|---------------------------------|
| Visual/Mech..... | Verify dimensions and materials..... | Per MF physical description |
| Resistance..... | In still air @ 23 °C..... | Rmin ≤ R ≤ Rmax |
| Time to Trip..... | 5 times Ihold, Vmax, 23 °C..... | T ≤ max. time to trip (seconds) |
| Hold Current..... | 30 min. at Ihold..... | No trip |
| Trip Cycle Life..... | Vmax, Imax, 100 cycles..... | No arcing or burning |
| Trip Endurance..... | Vmax, 48 hours..... | No arcing or burning |

Thermal Derating Chart - Ihold (Amps)

| Model | Ambient Operating Temperature | | | | | | | | |
|-----------|-------------------------------|--------|------|-------|-------|-------|-------|-------|-------|
| | -40 °C | -20 °C | 0 °C | 23 °C | 40 °C | 50 °C | 60 °C | 70 °C | 85 °C |
| MF-RG300 | 4.4 | 4.0 | 3.6 | 3.0 | 2.6 | 2.4 | 2.1 | 1.9 | 1.4 |
| MF-RG400 | 5.9 | 5.3 | 4.8 | 4.0 | 3.5 | 3.2 | 2.8 | 2.5 | 1.9 |
| MF-RG500 | 7.3 | 6.6 | 6.0 | 5.0 | 4.4 | 4.0 | 3.6 | 3.1 | 2.4 |
| MF-RG600 | 8.8 | 8.0 | 7.2 | 6.0 | 5.2 | 4.8 | 4.2 | 3.8 | 2.8 |
| MF-RG650 | 10.3 | 9.3 | 8.4 | 7.0 | 6.2 | 5.6 | 5.0 | 4.4 | 3.3 |
| MF-RG700 | 10.3 | 9.3 | 8.4 | 7.0 | 6.2 | 5.6 | 5.0 | 4.4 | 3.3 |
| MF-RG800 | 11.7 | 10.7 | 9.6 | 8.0 | 6.9 | 6.4 | 5.6 | 5.1 | 3.7 |
| MF-RG900 | 13.2 | 11.9 | 10.7 | 9.0 | 7.9 | 7.2 | 6.4 | 5.6 | 4.2 |
| MF-RG1000 | 14.7 | 13.3 | 12.0 | 10.0 | 8.7 | 8.0 | 7.0 | 6.3 | 4.7 |
| MF-RG1100 | 16.1 | 14.6 | 13.1 | 11.0 | 9.7 | 8.8 | 7.8 | 6.9 | 5.2 |

Itrip is approximately two times Ihold.



WARNING Cancer and Reproductive Harm - www.P65Warnings.ca.gov

* RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.

** Bourns considers a product to be "halogen free" if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (Cl) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less.

Specifications are subject to change without notice. Users should verify actual device performance in their specific applications.

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MF-RG Series - PTC Resettable Fuses

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Product Dimensions

| Model | A Max. | B Max. | C | | D Min. | E Max. | F Nom. | Physical Characteristics | |
|-----------|------------------------|------------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------------|--------------------------|----------|
| | | | Nom. | Tol. ± | | | | Style | Material |
| MF-RG300 | $\frac{7.1}{(0.280)}$ | $\frac{11.0}{(0.433)}$ | $\frac{5.1}{(0.201)}$ | $\frac{0.7}{(0.028)}$ | $\frac{7.6}{(0.299)}$ | $\frac{3.0}{(0.118)}$ | $\frac{0.81}{(0.032)}$ | 1 | Sn/Cu |
| MF-RG400 | $\frac{9.9}{(0.350)}$ | $\frac{12.8}{(0.504)}$ | $\frac{5.1}{(0.201)}$ | $\frac{0.7}{(0.028)}$ | $\frac{7.6}{(0.299)}$ | $\frac{3.0}{(0.118)}$ | $\frac{0.81}{(0.032)}$ | 1 | Sn/Cu |
| MF-RG500 | $\frac{10.4}{(0.409)}$ | $\frac{14.3}{(0.563)}$ | $\frac{5.1}{(0.201)}$ | $\frac{0.7}{(0.028)}$ | $\frac{7.6}{(0.299)}$ | $\frac{3.0}{(0.118)}$ | $\frac{0.81}{(0.032)}$ | 1 | Sn/Cu |
| MF-RG600 | $\frac{10.7}{(0.421)}$ | $\frac{17.1}{(0.673)}$ | $\frac{5.1}{(0.201)}$ | $\frac{0.7}{(0.028)}$ | $\frac{7.6}{(0.299)}$ | $\frac{3.0}{(0.118)}$ | $\frac{0.81}{(0.032)}$ | 1 | Sn/Cu |
| MF-RG650 | $\frac{11.2}{(0.441)}$ | $\frac{19.7}{(0.776)}$ | $\frac{5.1}{(0.201)}$ | $\frac{0.7}{(0.028)}$ | $\frac{7.6}{(0.299)}$ | $\frac{3.0}{(0.118)}$ | $\frac{0.81}{(0.032)}$ | 1 | Sn/Cu |
| MF-RG700 | $\frac{11.2}{(0.441)}$ | $\frac{19.7}{(0.776)}$ | $\frac{5.1}{(0.201)}$ | $\frac{0.7}{(0.028)}$ | $\frac{7.6}{(0.299)}$ | $\frac{3.0}{(0.118)}$ | $\frac{0.81}{(0.032)}$ | 1 | Sn/Cu |
| MF-RG800 | $\frac{12.7}{(0.500)}$ | $\frac{20.9}{(0.823)}$ | $\frac{5.1}{(0.201)}$ | $\frac{0.7}{(0.028)}$ | $\frac{7.6}{(0.299)}$ | $\frac{3.0}{(0.118)}$ | $\frac{0.81}{(0.032)}$ | 1 | Sn/Cu |
| MF-RG900 | $\frac{14.0}{(0.551)}$ | $\frac{21.7}{(0.854)}$ | $\frac{5.1}{(0.201)}$ | $\frac{0.7}{(0.028)}$ | $\frac{7.6}{(0.299)}$ | $\frac{3.0}{(0.118)}$ | $\frac{0.81}{(0.032)}$ | 1 | Sn/Cu |
| MF-RG1000 | $\frac{16.5}{(0.650)}$ | $\frac{21.7}{(0.854)}$ | $\frac{5.1}{(0.201)}$ | $\frac{0.7}{(0.028)}$ | $\frac{7.6}{(0.299)}$ | $\frac{3.0}{(0.118)}$ | $\frac{0.81}{(0.032)}$ | 1 | Sn/Cu |
| MF-RG1100 | $\frac{17.5}{(0.689)}$ | $\frac{26.0}{(1.024)}$ | $\frac{5.1}{(0.201)}$ | $\frac{0.7}{(0.028)}$ | $\frac{7.6}{(0.299)}$ | $\frac{3.0}{(0.118)}$ | $\frac{0.81}{(0.032)}$ | 1 | Sn/Cu |

Packaging options:

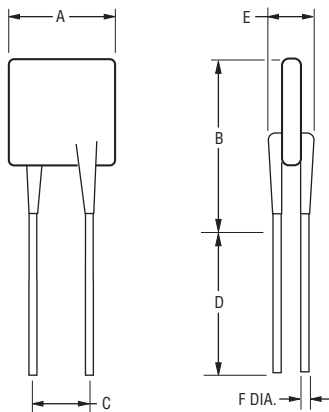
BULK: MF-RG300~MF-RG1100 = 500 pcs. per bag.

TAPE & REEL: MF-RG300~MF-RG500 = 3000 pcs. per reel; MF-RG600~MF-RG1100 = 1000 pcs. per reel.

AMMO-PACK: MF-RG300~MF-RG500 = 2000 pcs. per reel; MF-RG600~MF-RG1100 = 1000 pcs. per reel.

0.81 (20AWG)

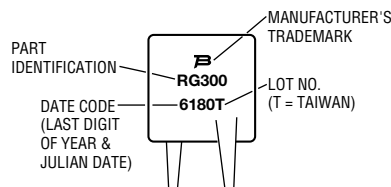
DIMENSIONS: $\frac{\text{MM}}{\text{(INCHES)}}$



Also available with kinked leads (see How to Order).

Typical Part Marking

Represents total content. Layout may vary.



How to Order

MF - RG 300 - 0 - 14

Multifuse® Product Designator _____
 Series _____
 RG = Smaller Radial Ledged Component
 Hold Current, I_{hold} _____
 300-1100 (3.0 Amps - 11.0 Amps)
 Packaging Options _____
 - 0 = Bulk Packaging
 - 2 = Tape and Reel
 - AP = Ammo-Pak
 Part Number Suffix Option _____
 - ____ = Standard Straight Leads without part number suffix option
 - 14 = Kinked Leads in Place of Standard Straight Leads

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Users should verify actual device performance in their specific applications.

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MF-RG Series - PTC Resettable Fuses

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Typical Time to Trip at 23 °C



BOURNS®

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EMEA: Tel: +36 88 520 390 • Email: eurocus@bourns.com

The Americas: Tel: +1-951 781-5500 • Email: americus@bourns.com

www.bourns.com

MF-RG SERIES, REV. N, 05/18

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MF-RG Series Tape and Reel Specifications

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Devices taped using EIA468–B/IEC60286-2 standards. See table below and Figures 1 and 2 for details.

| Dimension Description | IEC Mark | EIA Mark | Dimensions | |
|---|--------------|------------|-------------------------|------------------------------------|
| | | | Dimensions | Tolerance |
| Carrier tape width | W | W | $\frac{18}{(.709)}$ | $\frac{-0.5/+1.0}{(-0.02/+0.039)}$ |
| Hold down tape width | | W_4 | $\frac{11}{(.433)}$ | min. |
| Hold down tape | W_0 | | No protrusion | |
| Top distance between tape edges | W_2 | W_6 | $\frac{3}{(.118)}$ | max. |
| Sprocket hole position | W_1 | W_5 | $\frac{9}{(.354)}$ | $\frac{-0.5/+0.75}{(-0.02/+0.03)}$ |
| Sprocket hole diameter | D_0 | D_0 | $\frac{4}{(.157)}$ | $\frac{\pm 0.2}{(\pm .0078)}$ |
| Abscissa to plane (straight lead) | H | H | $\frac{18.5}{(.728)}$ | $\frac{\pm 3.0}{(\pm .118)}$ |
| Abscissa to plane (kinked lead) | H_0 | H_0 | $\frac{16}{(.63)}$ | $\frac{\pm 0.5}{(\pm .02)}$ |
| Abscissa to top (straight lead) | H_1 | H_1 | $\frac{38.0}{(1.496)}$ | max. |
| Abscissa to top (kinked lead) | H_1 | H_1 | $\frac{32.2}{(1.268)}$ | max. |
| Overall width w/lead protrusion (straight lead) | | C_1 | $\frac{55.0}{(2.165)}$ | max. |
| Overall width w/lead protrusion (kinked lead) | | C_1 | $\frac{43.2}{(1.7)}$ | max. |
| Overall width w/o lead protrusion (straight lead) | | C_2 | $\frac{54.0}{(2.126)}$ | max. |
| Overall width w/o lead protrusion (kinked lead) | | C_2 | $\frac{42.5}{(1.673)}$ | max. |
| Lead protrusion | l_1 | L_1 | $\frac{1.0}{(.039)}$ | max. |
| Protrusion of cutout | L | L | $\frac{11}{(.433)}$ | max. |
| Protrusion beyond hold-down tape | l_2 | l_2 | Not specified | |
| Sprocket hole pitch | P_0 | P_0 | $\frac{12.7}{(0.5)}$ | $\frac{\pm 0.3}{(\pm .012)}$ |
| Pitch tolerance | | | 20 consecutive | $\frac{\pm 1}{(\pm .039)}$ |
| Device pitch | | | $\frac{25.4}{(1.000)}$ | $\frac{\pm 0.3}{(\pm .012)}$ |
| Tape thickness | t | t | $\frac{0.9}{(.035)}$ | max. |
| Tape thickness with splice | | t_1 | $\frac{2.0}{(.079)}$ | max. |
| Splice sprocket hole alignment | | | $\frac{4.0}{(.157)}$ | $\frac{\pm 0.2}{(\pm .008)}$ |
| Body lateral deviation | Δ_h | Δ_h | 0 | $\frac{\pm 1}{(\pm .039)}$ |
| Body tape plane deviation | Δ_p | Δ_p | 0 | $\frac{\pm 1.3}{(\pm .051)}$ |
| Lead seating plane deviation | ΔP_1 | P_1 | $\frac{3.81}{(.015)}$ | $\frac{\pm 0.7}{(\pm .028)}$ |
| Lead spacing | F | F | $\frac{5.08}{(.200)}$ | $\frac{-0.2/+0.8}{(.008/+0.031)}$ |
| Reel width | w | w | $\frac{56.0}{(2.20)}$ | max. |
| Reel diameter | d | a | $\frac{370.0}{(14.57)}$ | max. |
| Space between flanges less device | | | $\frac{4.75}{(.187)}$ | $\frac{\pm 3.25}{(\pm .128)}$ |

DIMENSIONS: $\frac{\text{MM}}{\text{(INCHES)}}$

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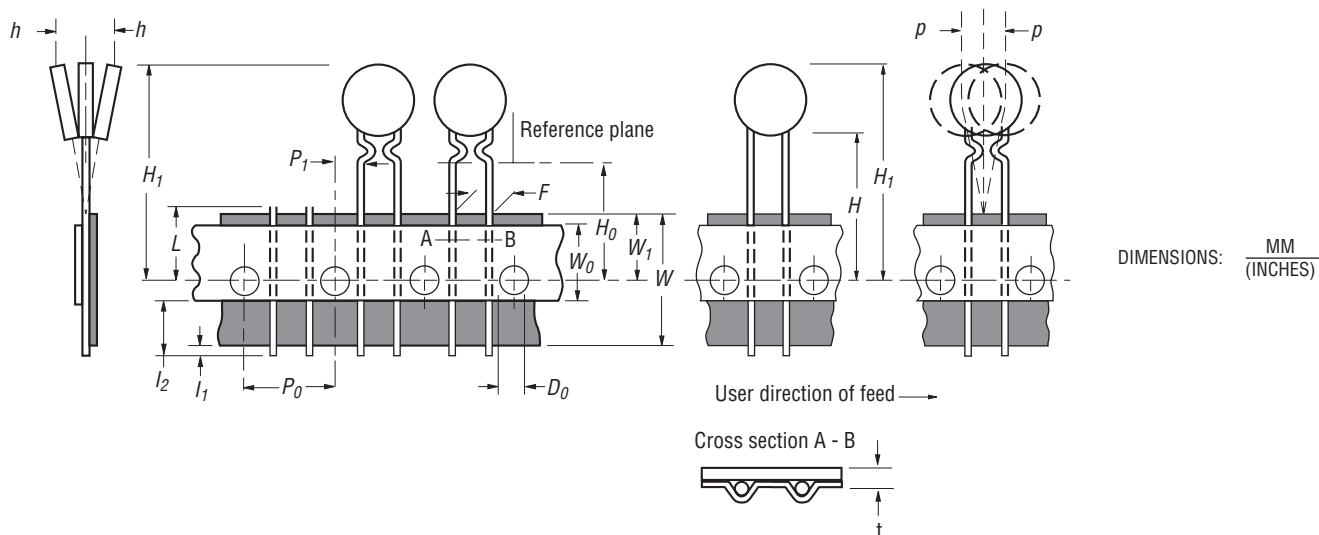
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MF-RG Series Tape and Reel Specifications

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| Dimension Description | IEC Mark | EIA Mark | Dimensions | |
|----------------------------|----------|----------|---|-------------------------------|
| | | | Dimensions | Tolerance |
| Arbor hole diameter | <i>f</i> | <i>c</i> | $\frac{26.0}{(1.02)}$ | $\frac{\pm 12.0}{(\pm .472)}$ |
| Core diameter | <i>h</i> | <i>n</i> | $\frac{80.0}{(3.15)}$ | max. |
| Box | | | $\frac{64}{(2.50)}$ $\frac{372}{(14.6)}$ $\frac{372}{(14.6)}$ | nom. |
| Consecutive missing places | | | 3 | max. |
| Empty places per reel | | | Not specified | |

Taped Component Dimensions - Figure 1



Reel Dimensions - Figure 2



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Application Notice

- Users are responsible for independent and adequate evaluation of Bourns® Multifuse® Polymer PTC devices in the user's application, including the PPTC device characteristics stated in the applicable data sheet.
- Polymer PTC devices must not be allowed to operate beyond their stated maximum ratings. Operation in excess of such maximum ratings could result in damage to the PTC device and possibly lead to electrical arcing and/or fire. Circuits with inductance may generate a voltage above the rated voltage of the polymer PTC device and should be thoroughly evaluated within the user's application during the PTC selection and qualification process.
- Polymer PTC devices are intended to protect against adverse effects of temporary overcurrent or overtemperature conditions up to rated limits and are not intended to serve as protective devices where overcurrent or overvoltage conditions are expected to be repetitive or prolonged.
- In normal operation, polymer PTC devices experience thermal expansion under fault conditions. Thus, a polymer PTC device must be protected against mechanical stress, and must be given adequate clearance within the user's application to accommodate such thermal expansion. Rigid potting materials or fixed housings or coverings that do not provide adequate clearance should be thoroughly examined and tested by the user, as they may result in the malfunction of polymer PTC devices if the thermal expansion is inhibited.
- Exposure to lubricants, silicon-based oils, solvents, gels, electrolytes, acids, and other related or similar materials may adversely affect the performance of polymer PTC devices.
- Aggressive solvents may adversely affect the performance of polymer PTC devices. Conformal coating, encapsulating, potting, molding, and sealing materials may contain aggressive solvents including but not limited to xylene and toluene, which are known to cause adverse effects on the performance of polymer PTCs. Such aggressive solvents must be thoroughly cured or baked to ensure their complete removal from polymer PTCs to minimize the possible adverse effect on the device.
- Recommended storage conditions should be followed at all times. Such conditions can be found on the applicable data sheet and on the Multifuse® Polymer PTC Moisture/Reflow Sensitivity Classification (MSL) note:
https://www.bourns.com/docs/RoHS-MSL/msl_mf.pdf

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